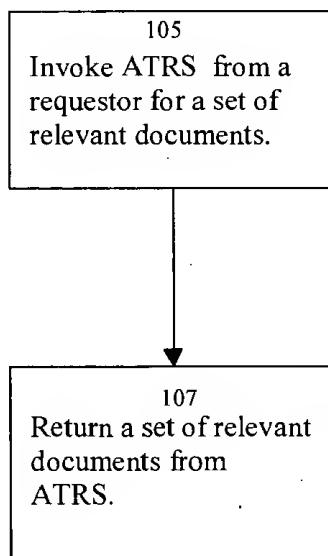
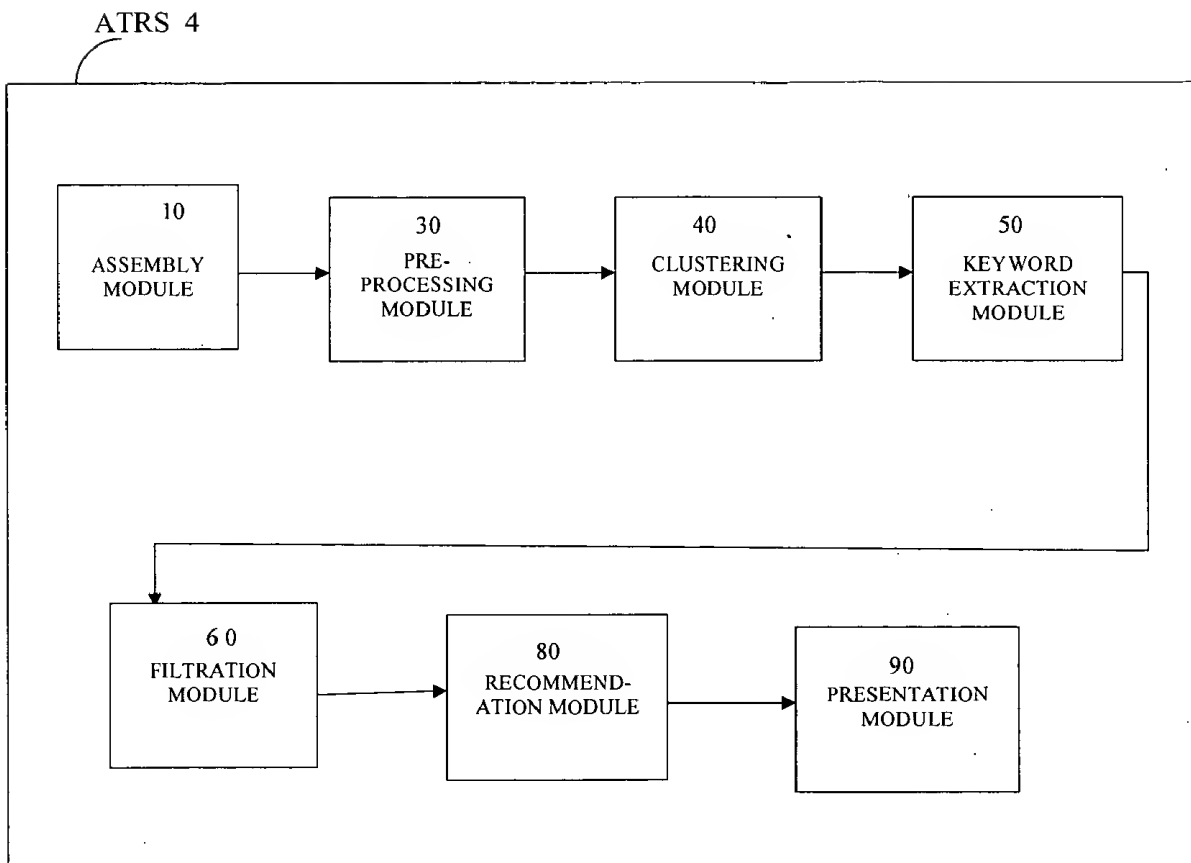


**FIGURE 1A**



**FIGURE 1B**



**FIGURE 2**

```
graph TD; 110[Assemble documents from multiple sources into an interest set.] --> 112[Pre-process documents to remove stop words.]; 112 --> 114[Group documents in the interest set into clusters.]; 114 --> 116[Extract key words contained in documents included in the clusters.]; 116 --> 118[Filter documents eligible to be considered for recommendation for each cluster.]; 118 --> 120[Construct a recommendation set of documents per cluster.]; 120 --> 122[Present recommendations.];
```

Assemble documents from multiple sources into an interest set. 110

Pre-process documents to remove stop words. 112

Group documents in the interest set into clusters. 114

Extract key words contained in documents included in the clusters. 116

Filter documents eligible to be considered for recommendation for each cluster. 118

Construct a recommendation set of documents per cluster. 120

Present recommendations. 122

**FIGURE 3**

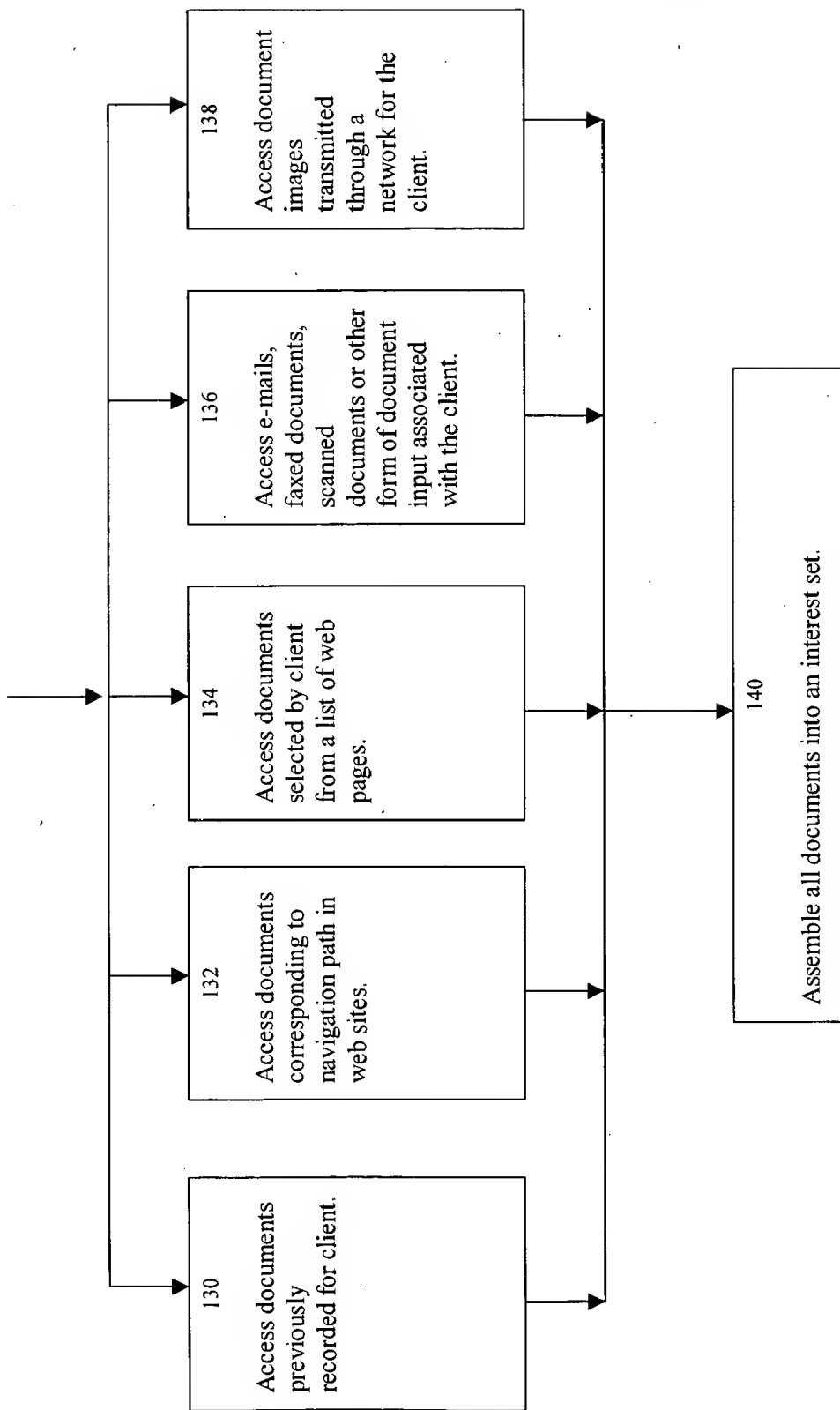
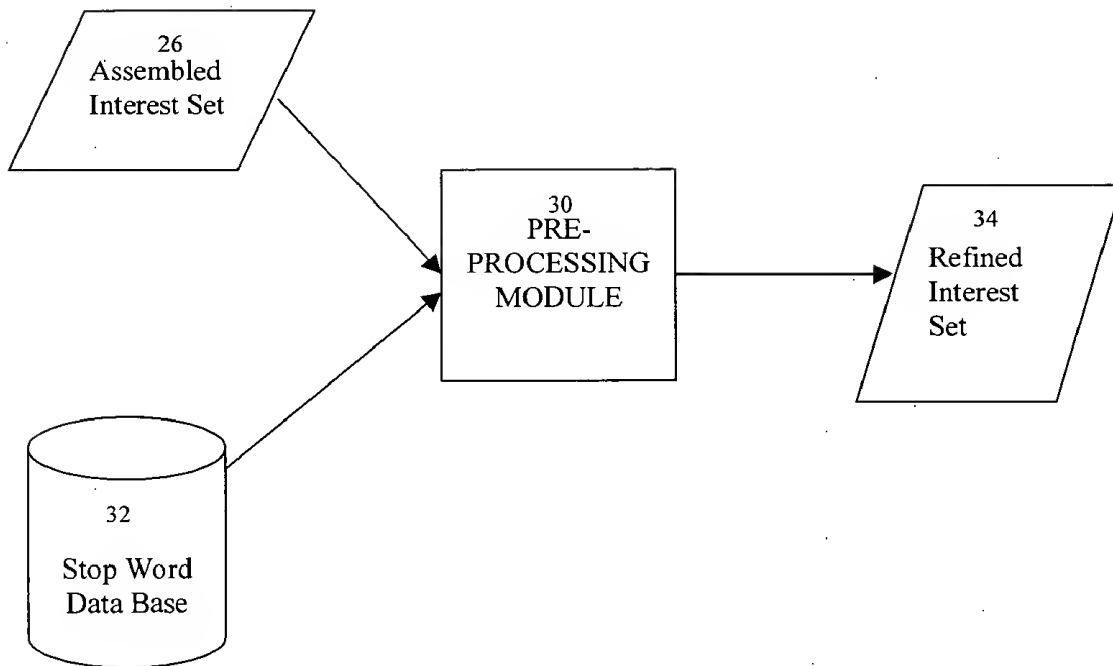
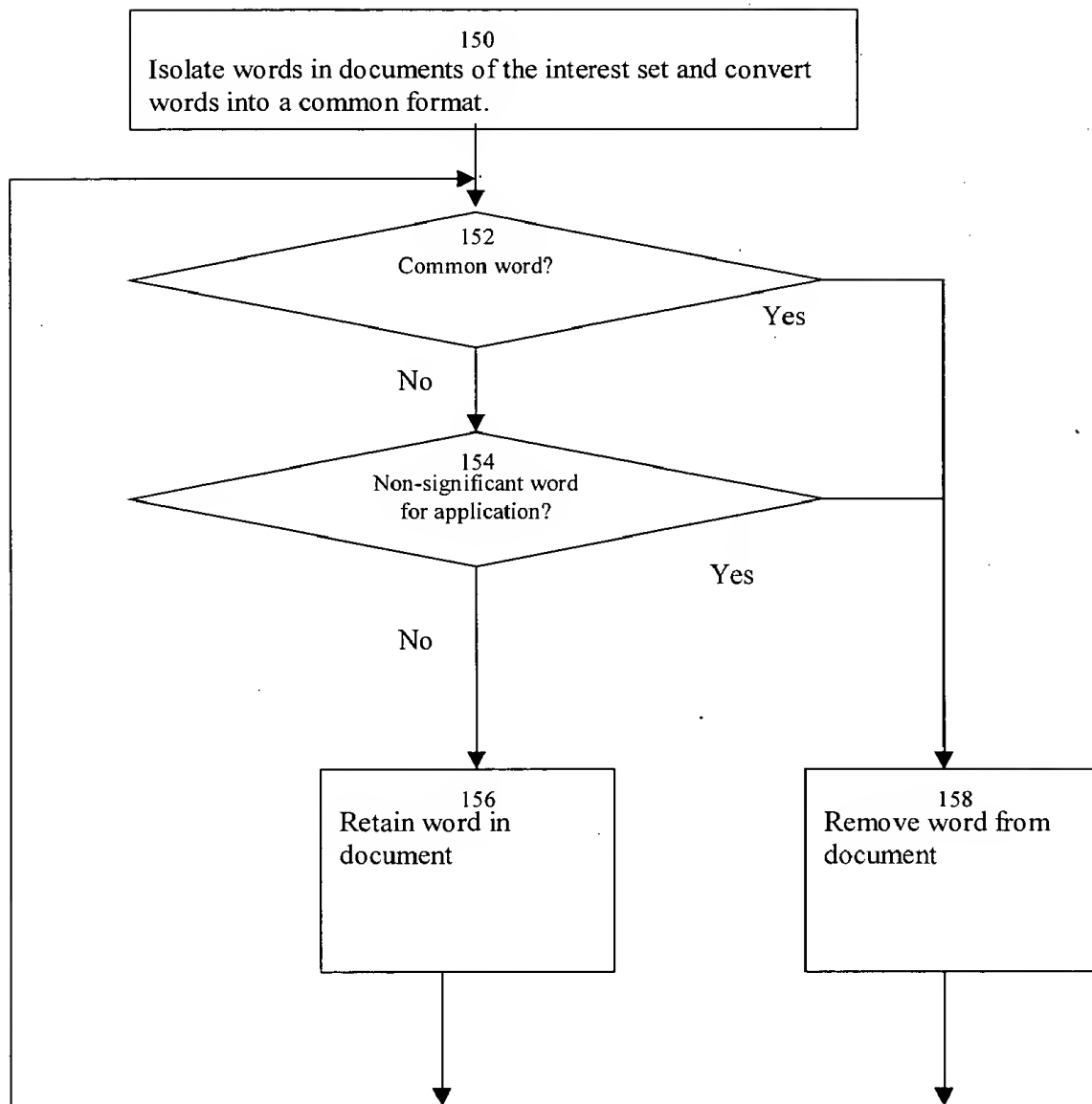


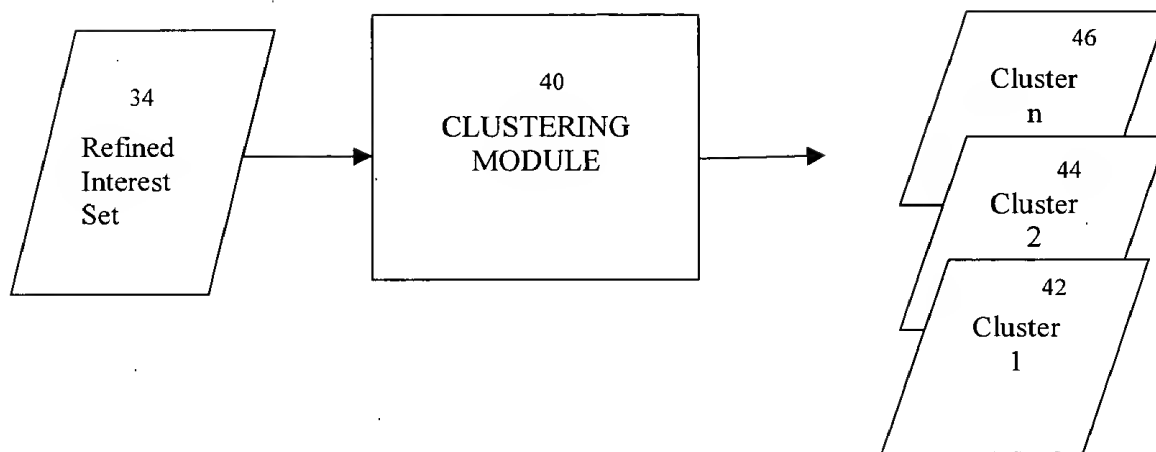
FIGURE 4



**FIGURE 5**



**FIGURE 6**



**FIGURE 7**

```
graph TD; Entry(( )) --> 180[180: For each word w in a cluster C:  
Calculate the frequency of the word w in the interest set: Frequency(w).  
Calculate the frequency of the word w in the cluster C: Frequency(w,C)]; 180 --> 182[182: Calculate the keyword score for word, w, in the cluster C:  
Keyword score (w,C) = log Frequency(w,C) - log Frequency(w)]; 182 --> 184[184: Select the keywords for the cluster based on application criteria.]; 184 --> 186{186: End of clusters?}; 186 -- Yes --> Exit(( )); 186 -- No --> Entry;
```

For each word  $w$  in a cluster  $C$ :  
Calculate the frequency of the word  $w$  in the interest set:  $\text{Frequency}(w)$ .  
Calculate the frequency of the word  $w$  in the cluster  $C$ :  $\text{Frequency}(w,C)$

Calculate the keyword score for word,  $w$ , in the cluster  $C$ :  
 $\text{Keyword score}(w,C) = \log \text{Frequency}(w,C) - \log \text{Frequency}(w)$

Select the keywords for the cluster based on application criteria.

End of clusters?

Yes

No

**FIGURE 8**



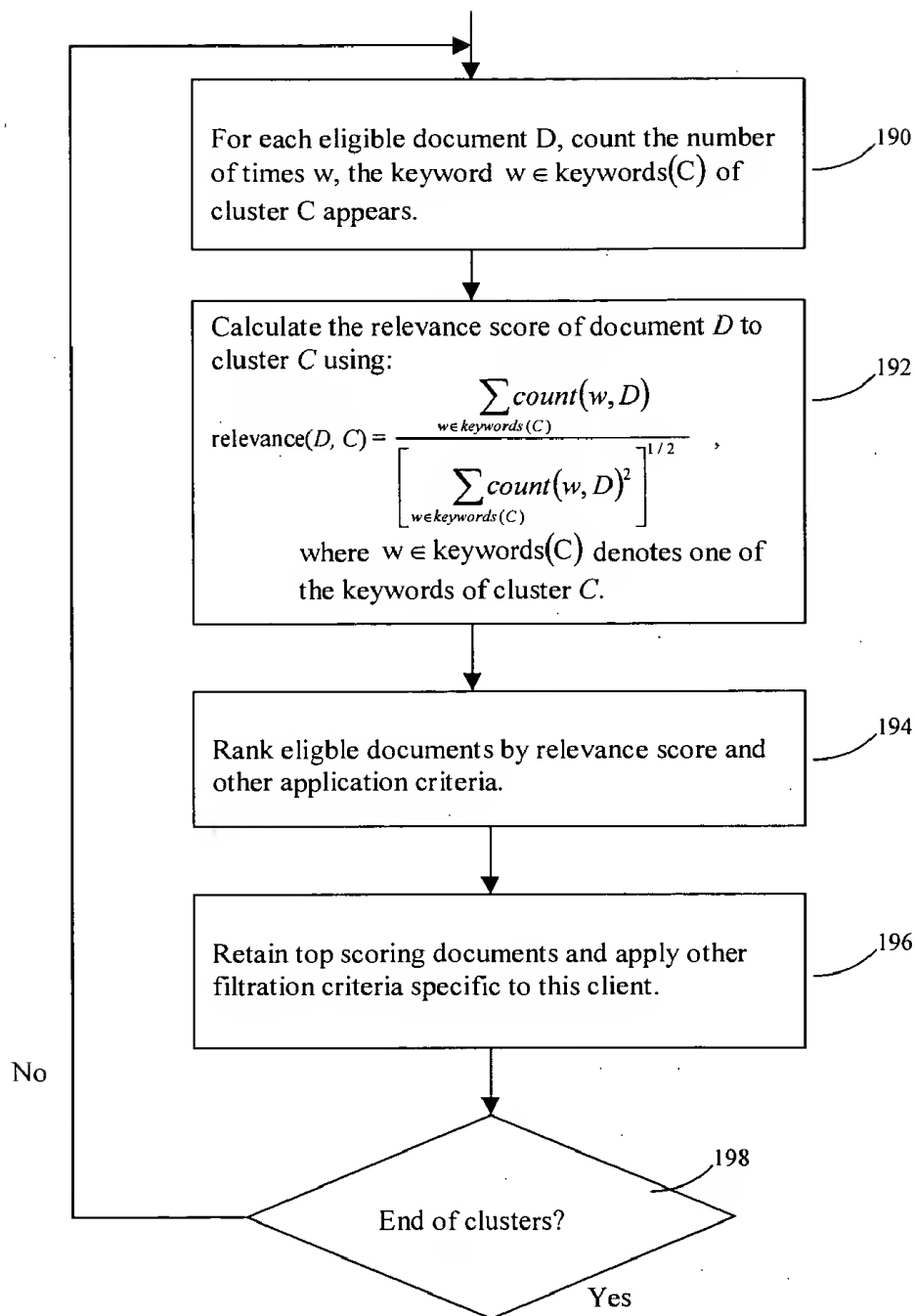


FIGURE 9

APPLICATION WEBSITE

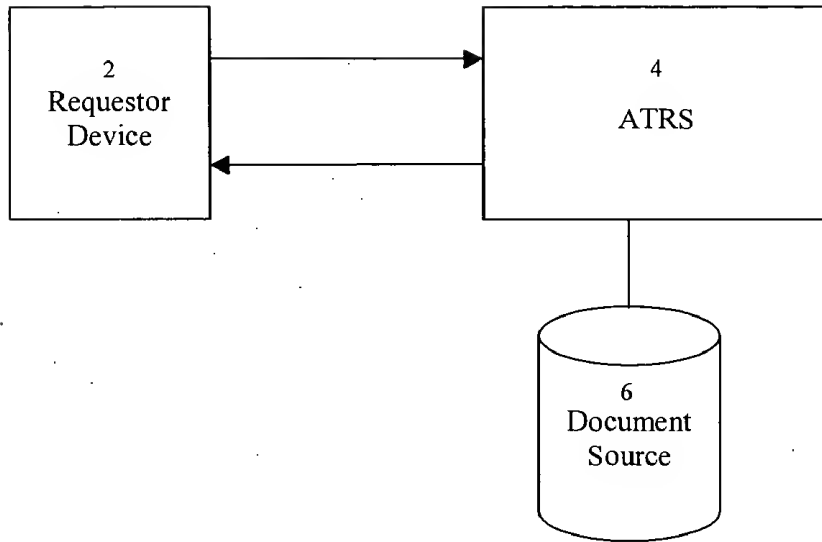


FIGURE 10A

APPLICATION WEBSITE

REMOTE SITE

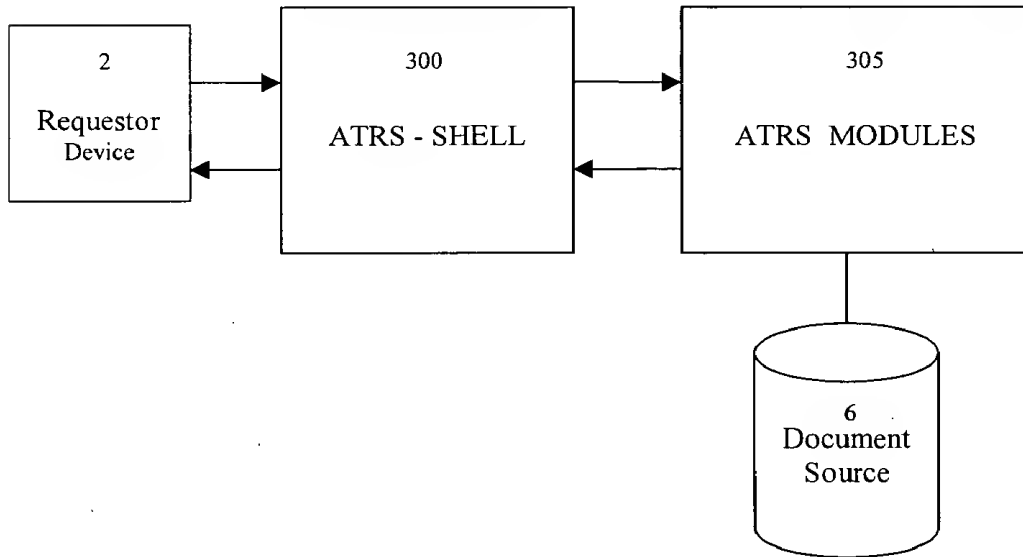
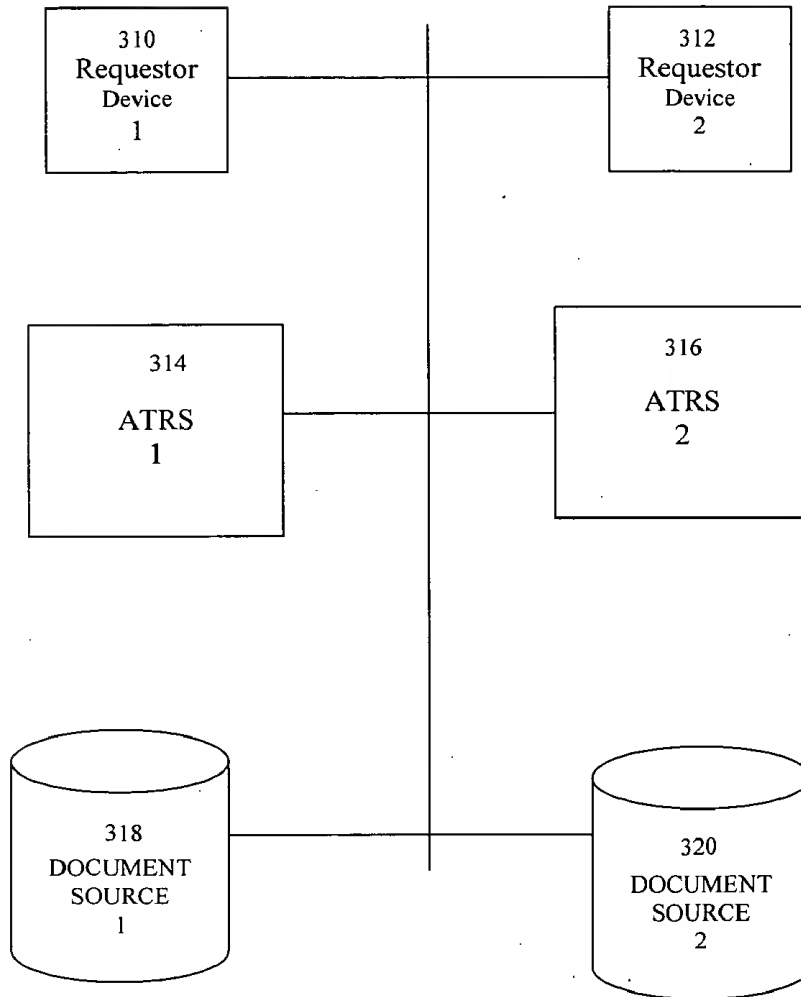


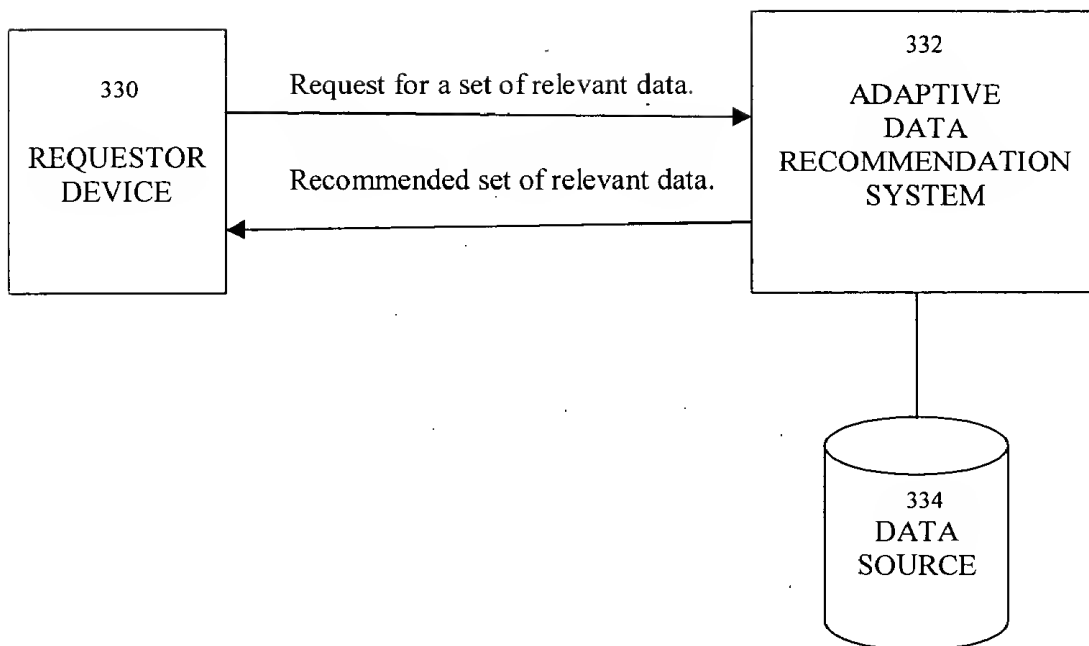
FIGURE 10B

UNITED STATES

OUTSIDE OF THE UNITED STATES



**FIGURE 11**



**FIGURE 12**

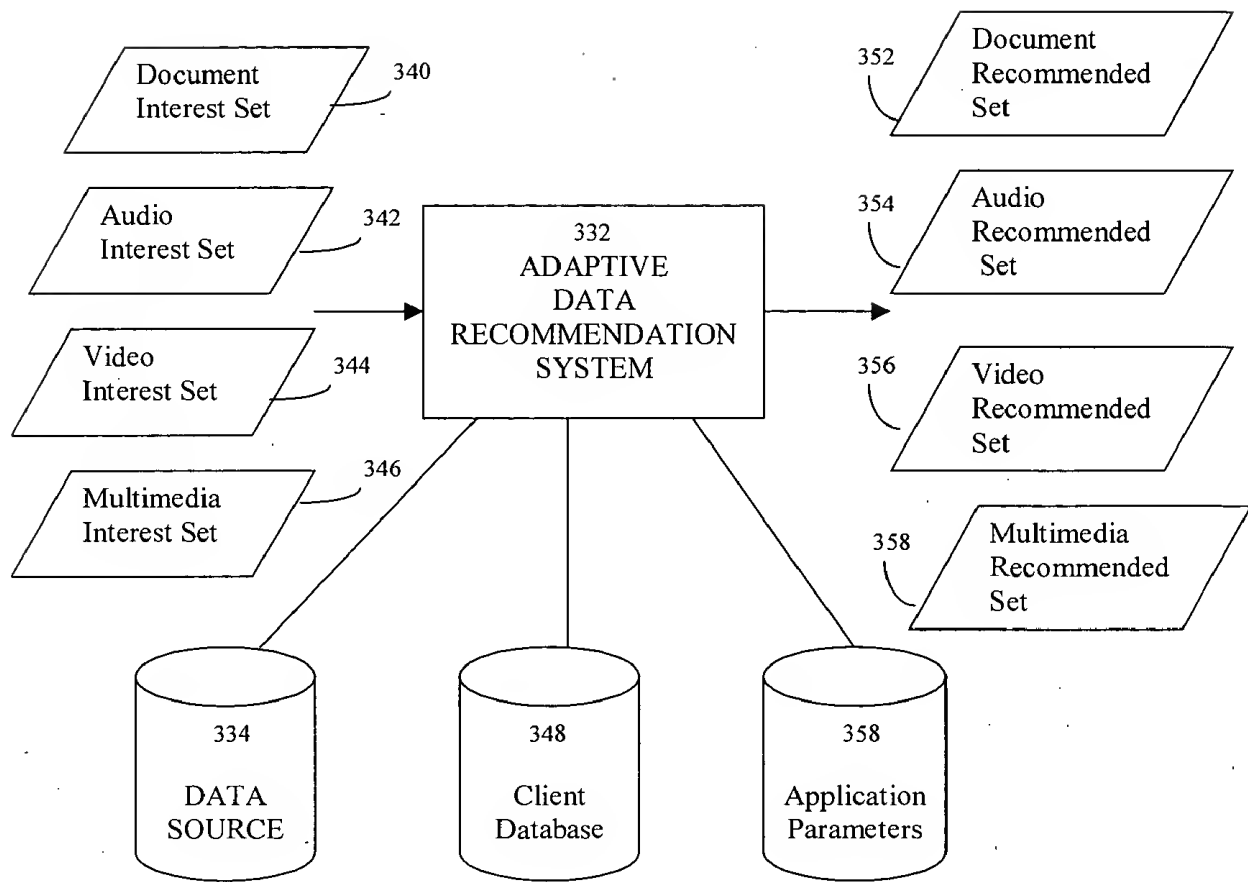


FIGURE 13